Foundations of Algebra

Module 4: Equations and Inequalities

Materials List

| Lesson | Materials |
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| 1. [The Variable Machine](#Variable) | * Two strips of lined notebook paper per student; one 5 cm wide and one 3 cm wide * Transparent tape * Student handout – Cracking the Code Activity Sheet |
| 2. [Analyzing Solutions of Equations and Inequalities](#Analyzing) | * Student handout – Partner Problems * Mini whiteboards (optional) |
| 3. [Set It Up](#Set) | * Student handout |
| 4. [Let’s Open a Business](#Let) | * Business Lesson Cards * Copies of additional practice |
| 5. [Solving Equations using Bar Diagrams](#Solving) | * Pencil * Paper * Tape * Learnzillion videos (core lesson and guided practice) |
| 6. [Deconstructing Word Problems](#Deconstructing) | * Pencil * Paper * Student handout |
| 7. [Steps to Solving an Equation (FAL)](#Steps) | * FAL pre-assessment * FAL post-assessment * Card sets for each pair (or small group) * Mini whiteboards * Chart paper or poster board * Glue * Scissors (if cards sets are not pre-cut) |
| 8. [T.V. Time and Video Games](#TV) | * Student handout – T.V. Time and Video Game * Index cards with expression and symbols listed in opening card sort |
| 9. [When is it Not Equal?](#When) | * Student handout |
| 11. [Yogurt Packaging](#Yogurt) | * Copy of lesson * Various empty yogurt containers * Paper * Tape * Scissors (used to construct a yogurt tub) |
| 12. [Don’t Sink My Battleship!](#Battleship) | * Battleship game cards * Student handout – Grid City Spring Festival * Graph paper or ruled chart paper |
| 13. [Acting Out](#Acting) | * Student handout – Acting Out * Colored pencils * Compass * String * Graph paper |
| 14. [Literal Equations](#Acting) | * Projector * Laptop * PowerPoint - Literal Equations * 35 index cards with letters and operations on them |
| 15. [Free Throw Percentages](#Free) | * Colored pencils * Straight edge * Graphing calculator (optional) * Graph paper (<http://incompetech.com/graphpaper>) * Student handout |
| 16. [Stacking Cups](#Stacking) | * Student handout * Videos |
| 17. [Planning a Party](#Planning) | * Student handout * Graph paper * Calculators (optional) |
| 18. [Field Day](#Field) | * Stop watch * Tape measure (such as those used by track and field team) to measure classroom length * Colored pencils * Straightedge * Graphing calculator (optional) * Graph paper * Student handout |
| 20. [Is it Cheaper to Pay Monthly or Annually?](#Cheaper) | * Price charts and graphs from website * Pictures of Disney or Universal characters |